



SEQUENCE LISTING

SEQ ID NO 1

5 ID SPSAK1 standard; DNA; PRO; 1377 BP.
 XX
 AC X00127;
 XX
 SV X00127.1
 10 XX
 NI g47425
 XX
 DT 20-FEB-1985 (Rel. 05, Created)
 DT 30-MAR-1995 (Rel. 43, Last updated, Version 2)
 15 XX
 DE Staphylococcus aureus S-phi-C gene for staphylokinase
 XX
 KW kinase; plasminogen activator; signal peptide; staphylokinase.
 XX
 20 OS Staphylococcus aureus
 OC Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillaceae;
 OC Staphylococcus.
 XX
 RN [1]
 25 RP 1-1377
 RX MEDLINE; 84069795.
 RA Sako T., Tsuchida N.;
 RT "Nucleotide sequence of the staphylokinase gene from Staphylococcus
 RT aureus";
 30 RL Nucleic Acids Res. 11:7679-7693(1983).
 XX
 DR SWISS-PROT; P00802; SAK_STAAU.
 XX
 FH Key Location/Qualifiers
 35 FH
 FT source 1. .1377
 FT /organism="Staphylococcus aureus"
 FT /db_xref="taxon:1280"
 FT /strain="Phage S-phi-C"
 40 FT promoter 193. .198
 FT /note="poss. promoter region"
 FT promoter 217. .222
 FT /note="poss. promoter region"
 FT RBS 301. .305
 45 FT /note="ribosome binding site"
 FT sig_peptide 313. .393
 FT /note="put. signal peptide"
 FT CDS 313. .804
 FT /db_xref="PID:g758303"
 50 FT /db_xref="SWISS-PROT:P00802"
 FT /transl_table=11
 FT /product="staphylokinase"
 FT /protein_id="CAA24957.1"
 FT
 55 /translation="MLKRSLLFLTVLLLLFSFSSITNEVSASSSFDKGGKYKKGDDASYF"

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    FT
    EPTGPYLMVNVTVGVDGKGNELLSPHYVEFPIKPGTTLTKEKIEYYVEWALDATAYKEF
    R
    FT
5  VVELDPSAKIEVTYYDKNKKKEETKSFPITEKGFVVPDLSEHIKNPGFNLITKVVIEKK
    FT
    FT mat_peptide 394.801
    FT /note="staphylokinase"
    XX
10 SQ Sequence 1377 BP; 452 A; 184 C; 255 G; 486 T; 0 other;
    GTATACGCGC TGGAACATTA ATATATGTGT TTGAAATTAT AGATGGTTGG TGTCGCATTT 60
    ATTGGAACAA TCATAATGAG TGGATATGGC ATGAGAGATT GATTGTGAAA GAAGTGTTTT 120
    AATTCTTAGG TAAAAATGTT AAATATTTGT TAATTATTTT TGAATGTAAG TTTAGTTTCT 180
    TTTAATATTT TATTGATTTT TAATATTTTC TCAATATAAA ATGAAGTTGT TGATATTTAT 240
15 CATCTTAAAT AAGGGTGTTA GCTATAAAAA GAGATAAATA AAAACAAATA TATTATATTT 300
    GGAGGAAGCG CCATGCTCAA AAGAAGTTTA TTATTTTAA CTGTTTATT GTTATTATTC 360
    TCATTTTCTT CAATTACTAA TGAGGTAAGT GCATCAAGTT CATTGACAA AGGAAAATAT 420
    AAAAAGGGCG ATGACGCGAG TTATTTTGAA CCAACAGGCC CGTATTTGAT GGTAAATGTG 480
    ACTGGAGTTG ATGGTAAAGG AAATGAATTG CTATCCCCTC ATTATGTCGA GTTTCCTATT 540
20 AAACCTGGGA CTACACTTAC AAAAGAAAAA ATTGAATACT ATGTGCAATG GGCATTAGAT 600
    GCGACAGCAT ATAAAGAGTT TAGAGTAGTT GAATTAGATC CAAGCGCAAA GATCGAAGTC 660
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    GGTTTTGTTG TCCCAGATTT ATCAGAGCAT ATTA AAAACC CTGGATTCAA CTTAATTACA 780
    AAGGTTGTTA TAGAAAAGAA ATAAACAAA ATAGTTGTTT ATTATAGAAA GTAATGTCTT 840
25 GATTGAATAT GTGTAGTGAA ATTATCTTTC ATCAAATTCT CATTGATGCA CGAATGGTTC 900
    TGCCCCACCT AATCAGATAT TAGGTGACTT ATGGGGAGAA ATCAGTTAGA ATGACATAGT 960
    CATGTCTATT TAAGCAGGTG CGTTACACAC CTGATGTCTA TTTACATTTA AAGATAAAAT 1020
    GTGCTATTAT TTTACTAGAA CTTTTTAACA TTTCTCTCAA GATTAAATG TAGATAACAG 1080
    GCAGGTACTA CGGTACTTGC CTGTTTTTTT ATGTTATAGC TAGCCTTCGG GCAGTTTTTG 1140
30 TTATGATGCG TTACACACGC ATCAACTATT CACACCTATC TTTGTTCAAC TAAGCATGTC 1200
    ACTGGGTGTT TTTTCTTAC GATAGAGAGC ATAGTTTCA TACTACTCCC CGTAGTATAT 1260
    ATGACTTTAG CATTCCCGTA TAACAGTTTA CGGGGTGCTT TTTATGTTAT ACTTACTTTT 1320
    ATATAGTAGG AGTGGACTAT ATAGCTGGTC AGAGGCTGTA TATCTGACTG TTGGTCC 1377
    //
35 SEQ ID NO 2 (Mature S. aureus staphylokinase)
    SSSFDKGKYK KGDDASYFEP TGPYLMVNVTVGVDGKGNELLSPHYVEFPIK
    PGTTLTKEKI EYYVEWALDA TAYKEFRVVE LDPSAKIEVT YYDKNKKKEE
    TKSFPITEKG FVVPDLSEHI KNPGFNLITK VVIEKK
40 SEQ ID NO 3 (G34S S. aureus staphylokinase mutant)
    SSSFDKGKYK KGDDASYFEP TGPYLMVNVTVGVDGKGNELLSPHYVEFPIK
    PGTTLTKEKI EYYVEWALDA TAYKEFRVVE LDPSAKIEVT YYDKNKKKEE
45 TKSFPITEKG FVVPDLSEHI KNPGFNLITK VVIEKK

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